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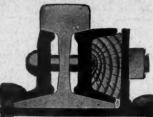
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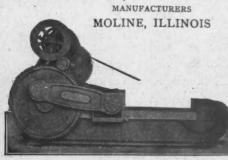
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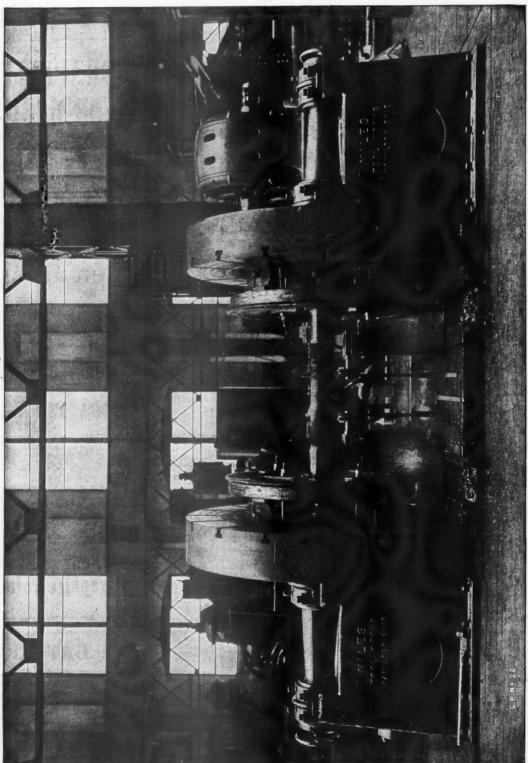
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St. Louis Expanded metal Fireprotonic Co. NOUITS

Evens & Howard Fire Brick Co., St. Louis, Mo.

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Osgood Dredge Co., Albany, N. Y.
Thew Automatic Shovel Co., Marion, N. Y.
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FINANCIAL EXAMINATIONS Burnett, Henry, New York, N. Y.

Burnett, Henry, New York, N. I.

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FORGES
Boynton & Plummer, Worcester, Mass.
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FORGES

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Industrial Works, Bay City, Mich.
Lambert Hoisting Engine Co., New York,
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Merrill-Stevens Mfg. Co., Kalamazoo, Mich.
Merrill-Stevens Mfg. Co., Kalamazoo, Mich.
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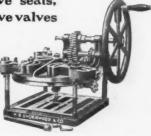
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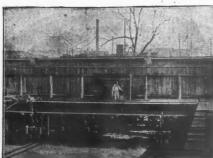
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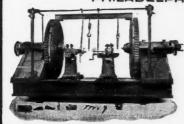
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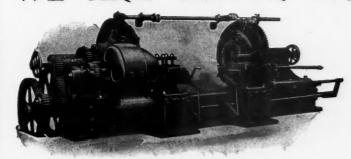
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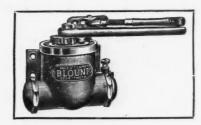
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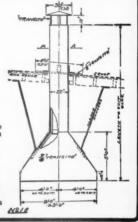
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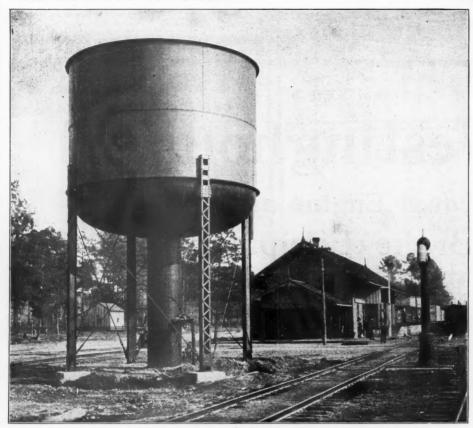
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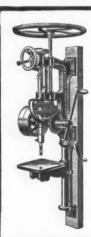
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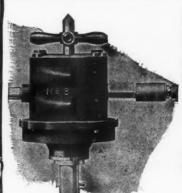


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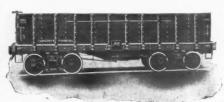
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#### = MEETINGS AND CONVENTIONS. :

#### RAILROAD ASSOCIATIONS.

American Society for Testing Materials.—Next annual meeting will be held at Atlantic City, N.J., June 29-July 1. Prof. Edgar Marburg, Sec., Philadelphia, Pa.

National Convention of Railroad Commissioners.—Meets at Dead-wood, S. Dak., Aug. 16, 1905. Ed-ward A. Moseley, Sec., Washington, D. C.

Railway Sigmal Association.—Meets second Tuesday in January, March, May, September and October. H. S. Baillet, Sec., Grand Central Sta-tion, New York City.

#### RAILROAD CLUBS.

Canadian Railway Club.—Meets at the Windsor Hotel, Montreal, Que., on the first Tuesday of each month at 8 p. m., excepting June, July and August. W. H. Rosevear, Jr., Secretary, Montreal.

Car Foreman's Association of Chi-cago.—Meets on the second Tues-day of each month at 8 p. m., 206 La Salle Street. A. Cameron, Sec-retary, 828 So. Western Avenue, Chicago, Ili.

Central Railway Club. Meets at the Hotel Iroquois, Buffalo, N. Y., on the second Friday of January, March, May, September and No-vember, at 2 p. m. Harry D. Vought, Secretary, 62 Liberty Street, New York.

Iowa Railway Club.—Meets on the third Tuesday of each month at place announced at previous meeting. A. T. Woodruff, Secretary (C. G. W.), Des Moines, Iowa.

New England Railroad Club.—Meets at Pierce Hall, Copley Square, Boston, Mass., on the second Tues-day of each month, except June, July, August and September. Ed-ward L. Janes, Secretary, South Terminal Station, Boston, Mass.

New York Railroad Club.—Meets on the third Friday of each month at 8 p. m., excepting June, July and August, at 154 West 57th Street (Carnegle Hall), Harry D. Vought, Secretary, New York City.

Secretary, New York City.

North West Railway Club.—Meets on the first Tuesday after the second Monday in each month, at 8 p. m., except June, July and August, the place of meeting alternating between the West Hotel, Minneapolis, and the Ryan Hotel, St. Paul. T. W. Flannagan, Storekeeper, "Soo" Line, Minneapolis, Secretary.

Railway Club of Pittsburg.—Meets at Hotel Henry at 8 p. m. on the fourth Friday of each month, ex-cept June, July and August. J. D. Conway, P. & L. E. R.R., Pittsburg, Pa., Secretary.

Rocky Mountain Rallway Club.—Meets on the second Tuesday of each month, excepting June, July and August, at 7:30 p. m., Assembly Room, Union Depot, Denver. Secre-tary, M. M. Currier, Box 229, Col-orado City, Colo.

St. Louis Railway Club.—Holds its regular meeting on the second Fri-day of each month, except July and August, at 3 p. m. E. A. Chenery, Secretary, Fourth Floor, Union Station, St. Louis.

Station, St. Louis.
Southern & Southwestern Railway
Club.—Meets at the Kimball House,
Atlanta, Ga., on the third Thursday
in January, April, August and November. & A. Love, Secretary,
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wember. G. A. Love, Secretary, Atlanta, Ga.
Richmond Railroad Club.—Regular meetings are held on the second Thursday in each month except June, July and August, at 8 p. m., in Richmond, Va. F. O. Robinson, Chesapeake & Ohio Ry., Richmond, Secretary. Secretary.

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Railway Water Supply Association.—
Meets on the first Sunday of each
quarter at Alexander Hill, South
Minneapolis, Minn. F. W. Hayden,
Secretary, Glencoe, Minn.

Pacific Coast Railway Club.—Meets
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Saturday of each month. C. C. Borton (S. P. Co.), Secretary, West
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Texas Railway Club.—Meets on the third Monday in April and Septem-ber at place and time chosen at the previous meeting. T. H. Osborne, Secretary, Pine Bluff, Ark.

Western Railway Club.—Meets on the third Tuesday of each month except June, July and August, in the Auditorium Hotel, Chicago, Ill. J. W. Taylor, Secretary, 390 Old Colony Building, Chicago.

#### ENGINEERING SOCIETIES.

American Institute of Electrical Engineers. — Meets at 12 W. 31st Street, New York, on the fourth Friday of each month, except June, July and August. Ralph W. Pope, Secretary, 95 Liberty Street, New York.

American Society of Civil Engineers.
—Meets at the house of the Society,
220 W. 57th Street, New York City,
on the first and third Wednesdays
in each month, at 8:30 p. m., except in July and August. C. W.
Hunt, Secretary, 220 W. 57th St.,
New York.

Meets at Chipman Hall, Tremont Temple, Boston, on the fourth Wednesday in January and on the third Wednesday of the other months, except July and August. S. E. Tinkham, Secretary, 60 City Hall,

Hall,
Canadian Society of Civil Engineers,
—Meets at its rooms, 877 Dorchester Street, Montreal, P. Q., every alternate Thursday, at 8 p. m.,
from October to May, inclusive. C.
H. McLeod, Secretary.
Chicago Electrical Association.—
Meets on the first Friday of each month, from October to May, at 8 p. m., at 1737 Monadnock Block, Chicago, W. J. Warder, Jr., 900
Warren Avenue, Secretary.
Civil Engineers' Club of Cleveland.—

Warren Avenue, Secretary.
Civil Engineers' Club of Cleveland.—
Meets at 689 The Arcade, Cleveland, Ohio, on the second Tuesday in each month at 8 p. m. Semimonthly meetings are held on the fourth Tuesday of each month. J. C. Beardsley, Secretary, 689 The Arcade.

Arcade.

Civil Engineers' Society of St. Paul,
—Meets on the second Monday of
each month. G. E. Edmonstone,
City Bridge Engineer, St. Paul,
Minn., Secretary.

Engineering Association of the South.
—Meets in the Berry Block, Nashville, Tenn., on the second Thursday of each month. Robert L.
Lind, Secretary, 2102 Hayes Street,
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Engineers' Club of Chicago.—Meets

Lind, Secretary, 2102 Hayes Street, Nashville, Tenn.
Engineers' Club of Chicago.—Meets on the first and third Tuesday evening of each month in Jefferson Hall, 70 Adams Street. B. W. Thurtell, Secretary, 1223 New York Life Building, Chicago.
Engineers' Club of Cincinnati.—Meets at the rooms of the Literary Club, 25 East Eighth Street, on the third Thursday of each month, excepting July and August, at 6 p. m. C. H. Meeds, Secretary, P. O. Box 333, Cincinnati, Ohio.

333. Cincinnati, Ohio.
Enigneers' Club of Columbus (Ohio).
—Meets at 12½ North High Street on the first and third Saturdays of October, November, December, January, February and March, and on the third Saturday of April, May, June and September. H. M. Gates, 12½ North High Street, Secretary, Columbus, Ohio.

Meets on the third Mondays of each month except July and August, at their room in the County Commissioner's Offices, Court House, Minneapolis. Jas. B. Gilman, Secretary, Am. Bridge Co.

tary, Am. Bridge Co.

Engineers' Lub of Philadelphia.—
Meets at the house of the Club,
1122 Girard Street, Philadelphia,
Pa., on the first and third Saturdays of each month at 8 p. m., except during July and August. Walter Loring Webb, Secretary.

Engineers' Club of St. Louis.—Meets
at 3817 Olive St., St. Louis. on the
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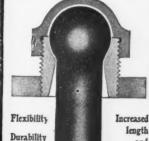
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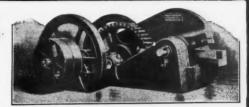
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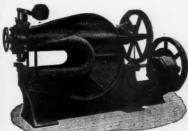


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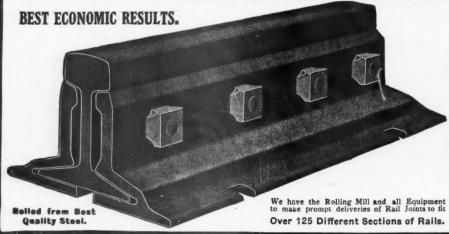
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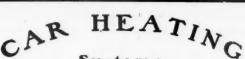


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Beats many other combinations. three famous trains of the

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They keep the trains on time
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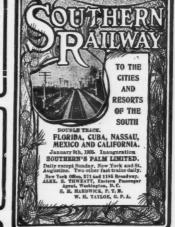
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See advertisements May 5, 12, and 19 issues of Railroad Gazette.

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\$18.00 EXTRA LARGE SIZE,

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MR. JNO. W. HOOD, Chattanooga, Tenn.
Dear Sir.—We have used your car rerailer in connection with our wrecking car at
Raieigh, N. C., and take pleasure in saying
that it has given entire satisfaction.

Yours truly,

(Signed) F. K. HUGER,

(Dic. by Mr. Huger) Gen'l Superintendent.



SEABOARD AIR LINE RAILWAY.
Raleigh, N. C., Nov. 21, 1904.
MR. John W. Hoop, In that tan onest, Tenn.
Dear Sir:—We have the statement of the momentum of the several sets of the Hood
Rerallers on this division, and I must
say that they afford satisfaction in
every respect, possessing all the merits
claimed for them, and I firmly believe
them to be the most perfect rerallers on
the market to-day. Yours truly.
(Signed) W. R. HUDSON, Supt.

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CIVES RAILROADS WHAT THEY NEED, AT A PRICE THEY CAN AFFORD

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**50 PER CENT GREATER MILEAGE** GUARANTEED TO GIVE THAN ANY OTHER METAL AND NOT TO HEAT, CUT OR CHAR AN AXLE OR PIN

FREIGHT CARS OF EVERY DESCRIPTION CAR WHEELS CASTINGS AND FORGINGS

CAPACITY: 20 CARS AND 300 CAR WHEELS PER DAY

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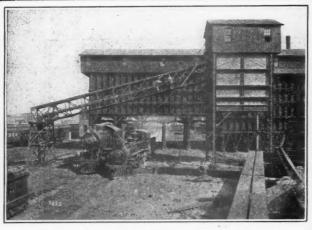
Is superior to Linseed Oil for use in painting freight cars, roofs, floors and trucks of passenger, express, baggage and mail cars. It is cheaper than Linseed Oil, and is in daily use by over one hundred and thirty railway companies. Sample half barrel sent free to any railway company on application. JAMES B. SIPE & COMPANY

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THAT COMFORTABLE SEAT THAT FITS THE BACK STANDARD ON ALL PULLMAN CARS

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Long Island R. R. Co., L. I., N. Y.

Ashes-handling machinery in foreground receives ashes from five pit

hoppers and delivers to 50-ton steel pocket.

Coaling station in background is of 3,200 tons capacity, employs Gravity Discharge Elevator and Conveyor and coals engines on 5 tracks.

We are very glad to furnish to those interested full information concerning any of our installations, and to make suggestions on any problem concerning the economical handling of materials.

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SWITCHES, STANDS, FROGS, CROSSINGS

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Patented in United States, Great Britain, Canada and France. Other foreign patents pending

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Tests covering fourteen months' daily fast passenger service show marked reduction in steam consumption and large increase in power.

HABERKORN ENGINE CO., FORT WAYNE, IND.

ALSO BUILDERS OF HABERKORN STATIONARY ENGINES

#### COMPRESSED CORK AS TRACK INSULATION.

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We also manufacture an excellent insulated rail joint. If you have a spot that an ordinary rail joint breaks down quickly, try a "KEYSTONE." Compressed Cork for railroad specialties.

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Has Stood Test of Time

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The Result of Experience and Research Extending Over More Than Half-a-Century, Extensively Used Throughout Europe. Approved and Used by United States Government Engineers.

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makes a Hydraulic Iron Cement that stops leaks and corrosion. Unequaled for seams of Boilers or Tanks, where Caulking is difficult; for Boiler Patching, Screw-thread Joints, Flanged Joints, Boiler Joints, Cracks, etc.

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MANUFACTURERS OF

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Hancock Ejectors

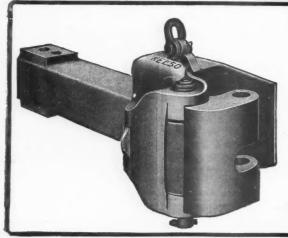
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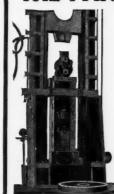
The Kelso "lock-set" is a real one. Dispenses with acrobatic work by the switchmen. Equally positive "lock-to-the-lock." Meets fully ALL the requirements of the Safety

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Simplest Strongest Bes

It has no yoke.

Coupler or springs can be taken
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Draft sills cannot be injured.

The cut shows the Single Spring gear in the M. C. B. drop testing machine at Purdue University, when blows from various heights were given it until the capacity of the machine was reached, 34 ft.; from this height seven blows were given it, and the gear was still serviceable. Each of these seven blows represented 176 tons.

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will increase the efficiency of the Section Gang and greatly Reduce operating Expenses.

A Surplus of Power that can be utilized for increased speed or for pulling dump or push cars, or for up grades.

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# HALL SIGNAL COMPANY

A considerable installation of Hall electro-gas automatic block signals was lately put in on the Northeastern Railway, of England. The art of automatic signaling is comparatively new to Great Britain, and this system was first viewed with marked distrust. The most rigid tests of the signal mechanism and the electric circuits were made by the railway company and by the inspectors for the Board of Trade. After months of constant watching and testing this installation was officially accepted and went into service June 4th, 1905. Lieutenant Colonel P. G. von Donop, R. E. (inspector for the Board of Trade) in recommending the acceptance of this system, says in part:

"The system has now been installed for over six months, though hitherto it has not been made use of for working the traffic. The system has, however, been under observation, and as stated by the company in their letter of the 11th October, 1904, it was watched daily from the 31st August to the 17th September, and by both day and night from the 19th September to the 1st October. During this time it is stated that no case occurred of any failure tending to cause danger.

"The employment of the system tends to safety; collisions attended with serious results have frequently occurred owing to the mistake of a signalman in allowing a train to enter a block section before the preceding train was clear of it; this form of accident, due to human fallibility, should be entirely eliminated by the use of this system."

It would seem that the use of another American labor-saving device is spreading throughout the civilized world.

The latest important products of the Hall Signal Company are the style "F," all electric semaphore signal, and the miniature electric train staff.

# The HALL SIGNAL COMPANY

25 BROAD STREET, NEW YORK

1423 Monadnock, CHICAGO Factory: GARWOOD, N. J.

# Superiority Is Our Trade-Mark

THE ST. LOUIS CAR COMPANY,

BUILDERS OF

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Now turning out an order of 137 Coaches for the Harriman Lines.

DRAWINGS AND SPECIFICATIONS CHEERFULLY SUBMITTED.

Special attention given to orders for Repairs, Supplies and Fixtures of every description.

EXCLUSIVE MANUFACTURERS OF THE SPIRAL JOURNAL BEARING OF WHICH THE NORTHERN PACIFIC HAS MANUFACTURERS OF THE SPIRAL JOURNAL BEARING OF WHICH THE NORTHERN PACIFIC HAS MANUFACTURED AN ORDER FOR 24,000.

ST. LOUIS CAR COMPANY.

ST. LOUIS. MO.

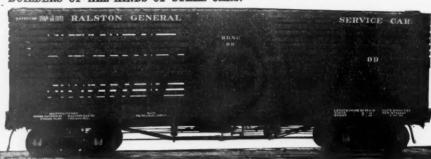
#### RALSTON CAR COMPANY CHICAGO, ILL.

BUILDERS OF ALL KINDS OF STEEL CARS.

General Service Car always ready for use.

Flush drop bottom 16 doors. :: :: ::

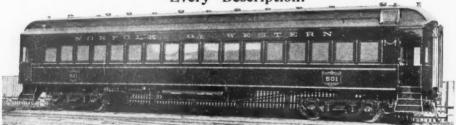
60,000 lbs. Capacity.



#### Harlan & Hollingsworth Corporation,

WILMINGTON, DELAWARE. Established 1836.

Builders of Parlor, Sleeping and Private Cars and Passenger Equipment of Every Description.



### PRESSED STEEL CARLINE



Saves dead weight. Increases inside height 7 per car gives increased strength No Tie Rods. No Repairs

Guaranteed for the life of the car Used with any style of roof Look out for our Spring Plank

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### PRESSED STEEL CARS

of all Types, Wooden Cars with Steel Underframes. Tank Cars, Steel Underframes Complete for Tank Cars, Street Cars, Freight Cars, and Automobiles; also Car Tanks to Replace Others now in Service; as Well as Bolsters, Trucks, Brake Beams, Corner Bands, Side Stakes and Other

#### PRESSED STEEL SPECIALTIES

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#### PRESSED STEEL CAR COMPANY

Offices: Pittsburgh, New York, Chicago, Atlanta, London, Mexico City, Sydney, NSW.

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H. M. PFLAGER, Vice-President

### Commonwealth Steel Company

ST. LOUIS, MO.

I PIECE INSTEAD OF 200.

> SAFE RIGID STRONG DURABLE ECONOMICAL

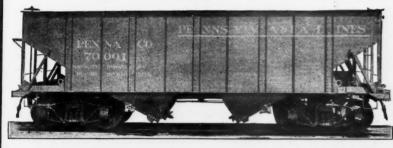


STANDARD ON PULLMAN CARS AND LEADING RAILROADS

A. S. B. D. B. Co. Cast Steel Double Body Bolster. Patented.

STEEL CASTINGS OF ALL DESCRIPTIONS

### STANDARD STEEL CAR COMPANY



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OF DIFFERENT DESIGNS

**ELECTRIC R'Y TRUCKS** 

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NEW YORK: 170 Broadway CHICAGO: Fisher Bidg. GENERAL OFFICES: Frick Bidg., Pittsburg, Pa. WORKS: Butler, Pa.

STEEL AND COMPOSITE

#### FREIGHT CARS

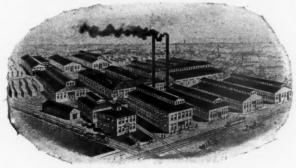
For all Classes of Service, from our Standard Designs, or According to Specifications of Purchasers.

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CAPACITY, 24,000 CARS PER ANNUM. WRITE FOR DETAILED INFORMATION.

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Steam and Electric Coaches

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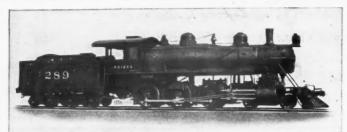
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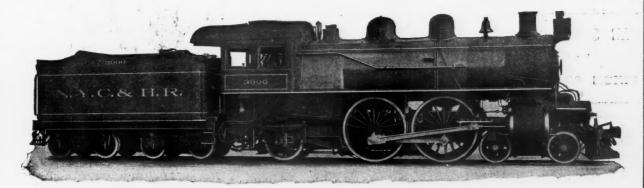
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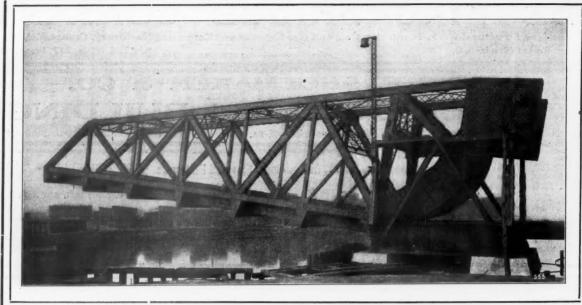


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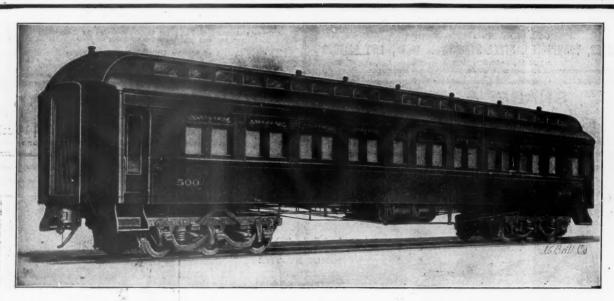
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